

15

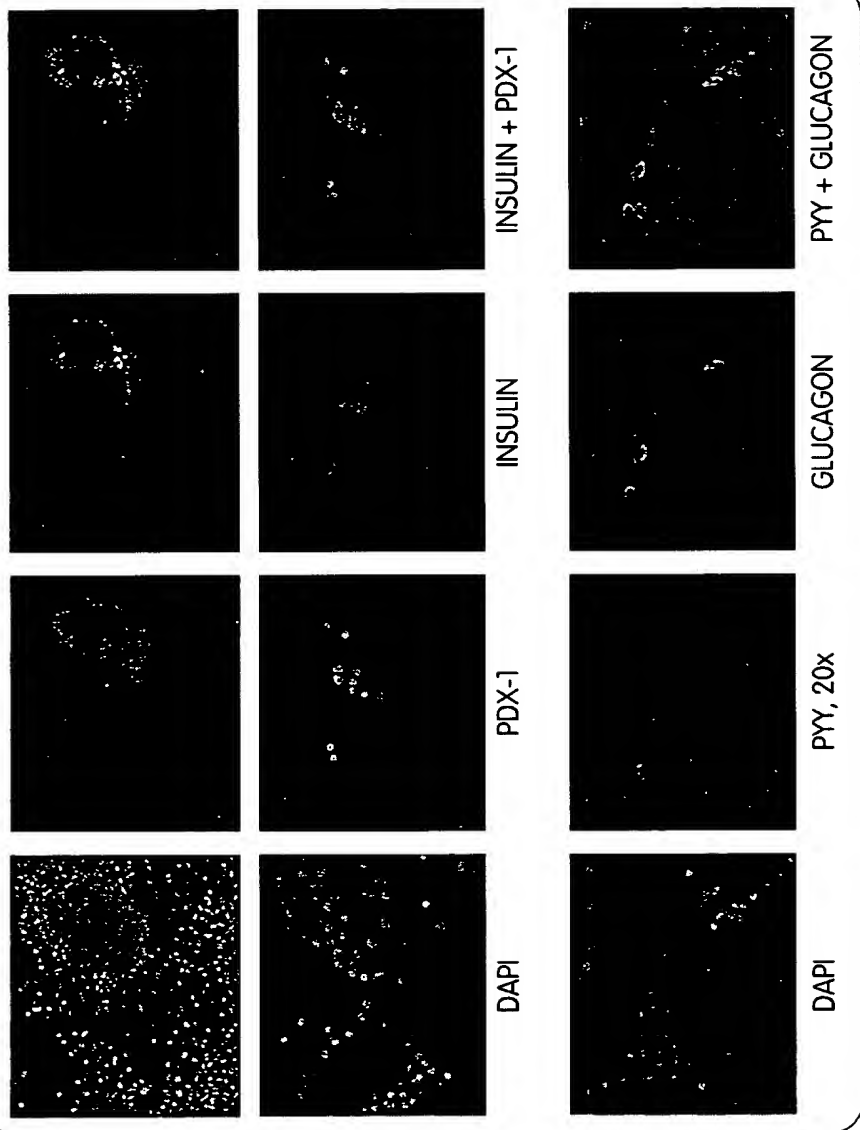


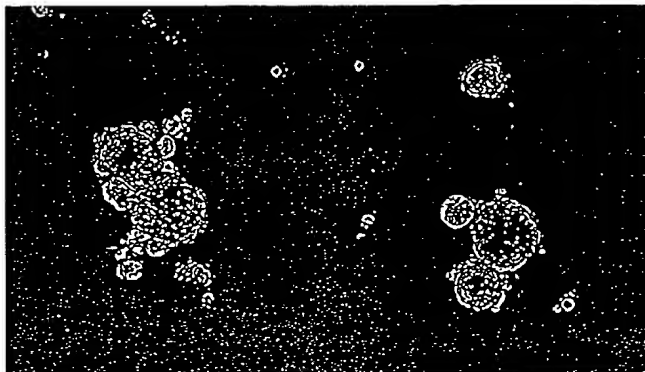
Fig. 16



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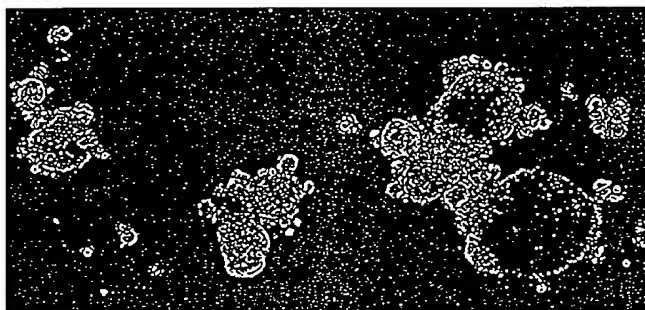
p14 DUCT PREP GROWN IN SPHERE MEDIA  
ON NON-TC SURFACE, p3  
ALL 10x mag.

MEDIA 1  
KO-B  
+15% KO-SR  
+TGF $\alpha$  + HGF  
+ IGF-I&II  
2mM GLUCOSE



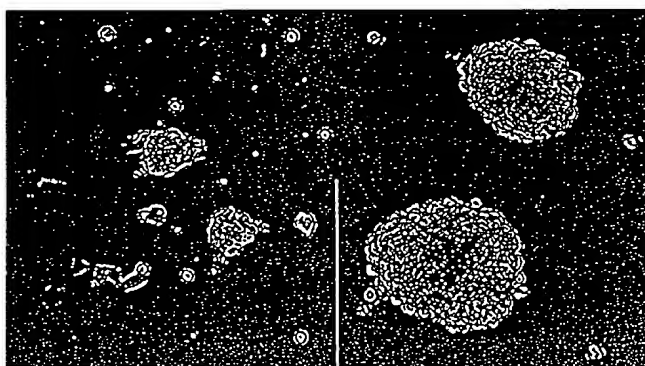
SLOWER GROWTH  
FEWER SPHERES  
HEALTHY

MEDIA 3  
LIVER BASAL  
+15% KO-SR  
+TGF $\alpha$  + HGF  
+ IGF-I&II  
11mM GLUCOSE



VERY FAST GROWTH  
MANY SPHERES  
LESS HEALTHY

NEUROSPHERE  
MEDIUM  
+Ins + EGF  
+bFGF + LIF  
17mM GLUCOSE



VERY HEALTHY  
VERY SLOW GROWTH  
FEW SPHERES

Fig. 42

DUCT SPHERE CELL IN VITRO DIFFERENTIATION  
- Glut2 / NESTIN

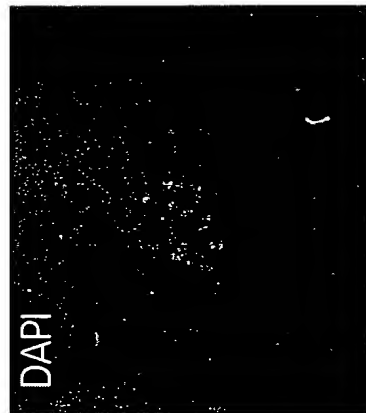
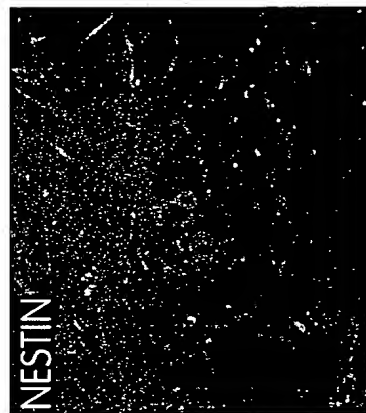
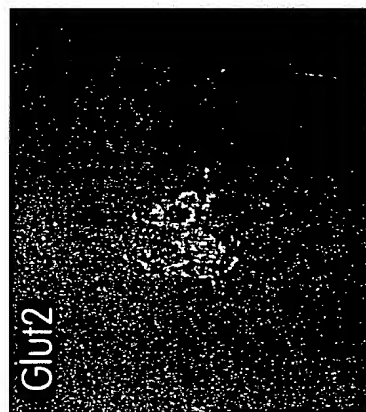
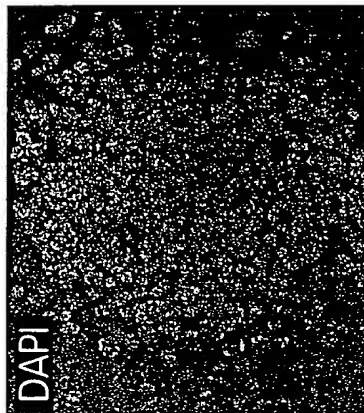
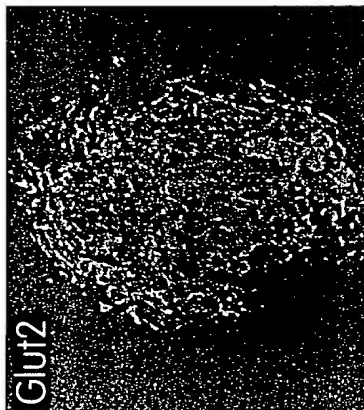


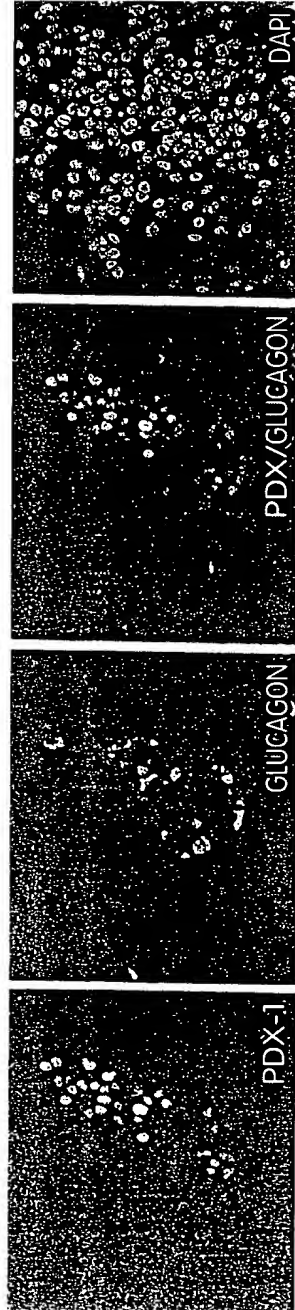
Fig. 43



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DUCT SPHERE CELL IN VITRO DIFFERENTIATION  
- PDX / GLUCAGON

SINGLE CLUSTER



TWO CLUSTERS

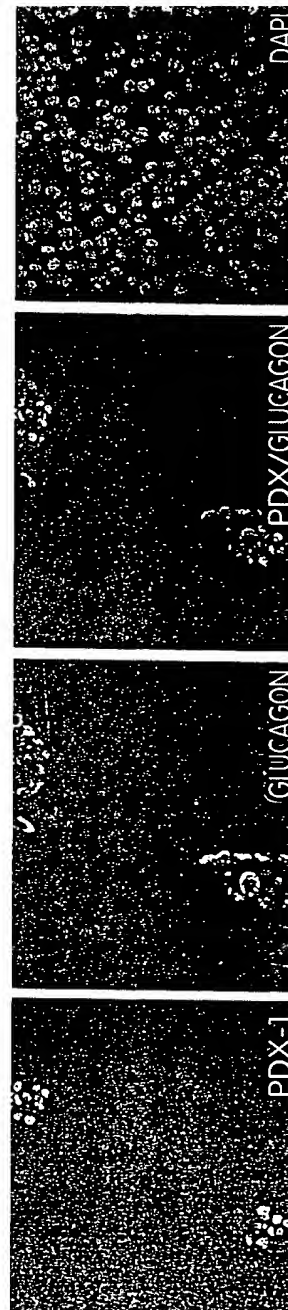


Fig. 44

BEST AVAILABLE COPY



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DUCT SPHERE CELL *IN VITRO* DIFFERENTIATION  
- PDX / INSULIN

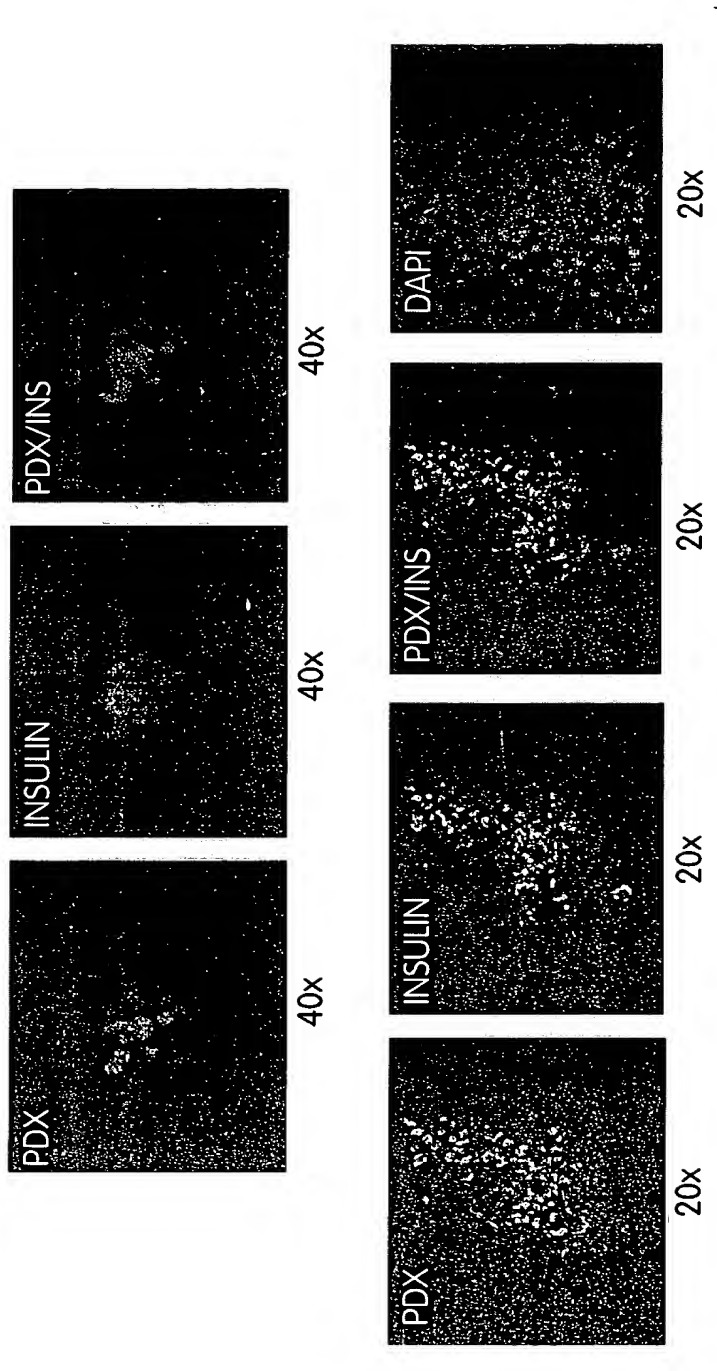


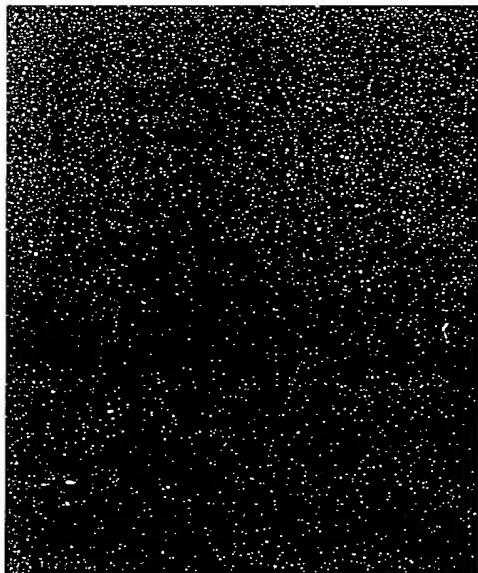
Fig. 45



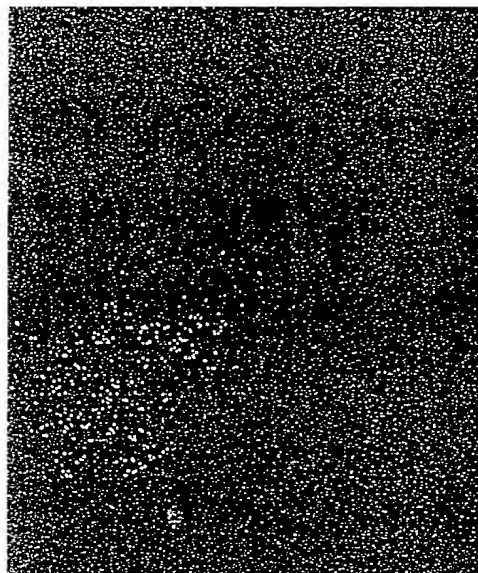
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5.19 SPHERES ON CYTOSPIN SLIDE  
(SPHERE IN CULTURE FOR 24 DAYS)

NESTIN



DAPI



NESTIN/DAPI

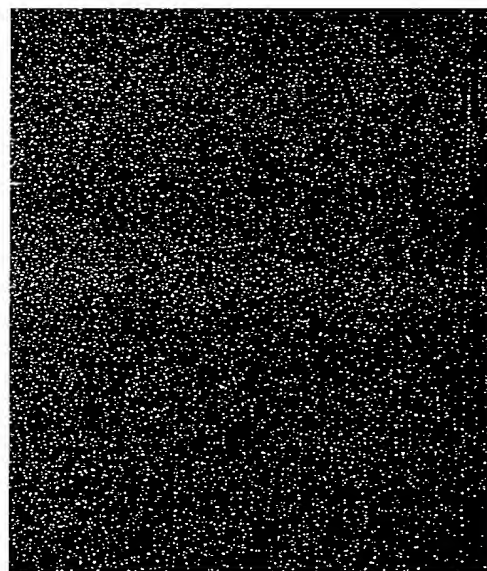
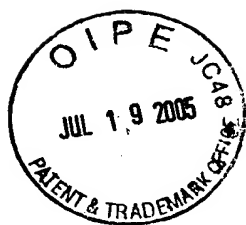


Fig. 47



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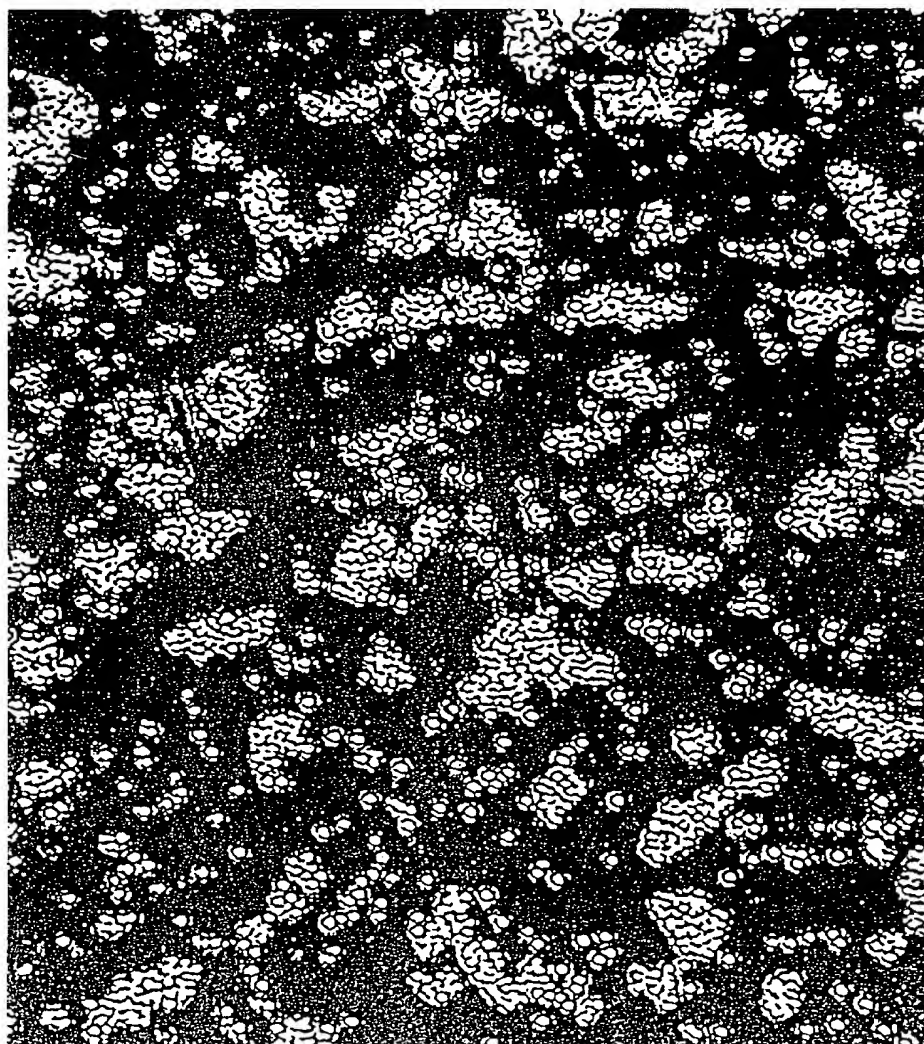


Fig. 49

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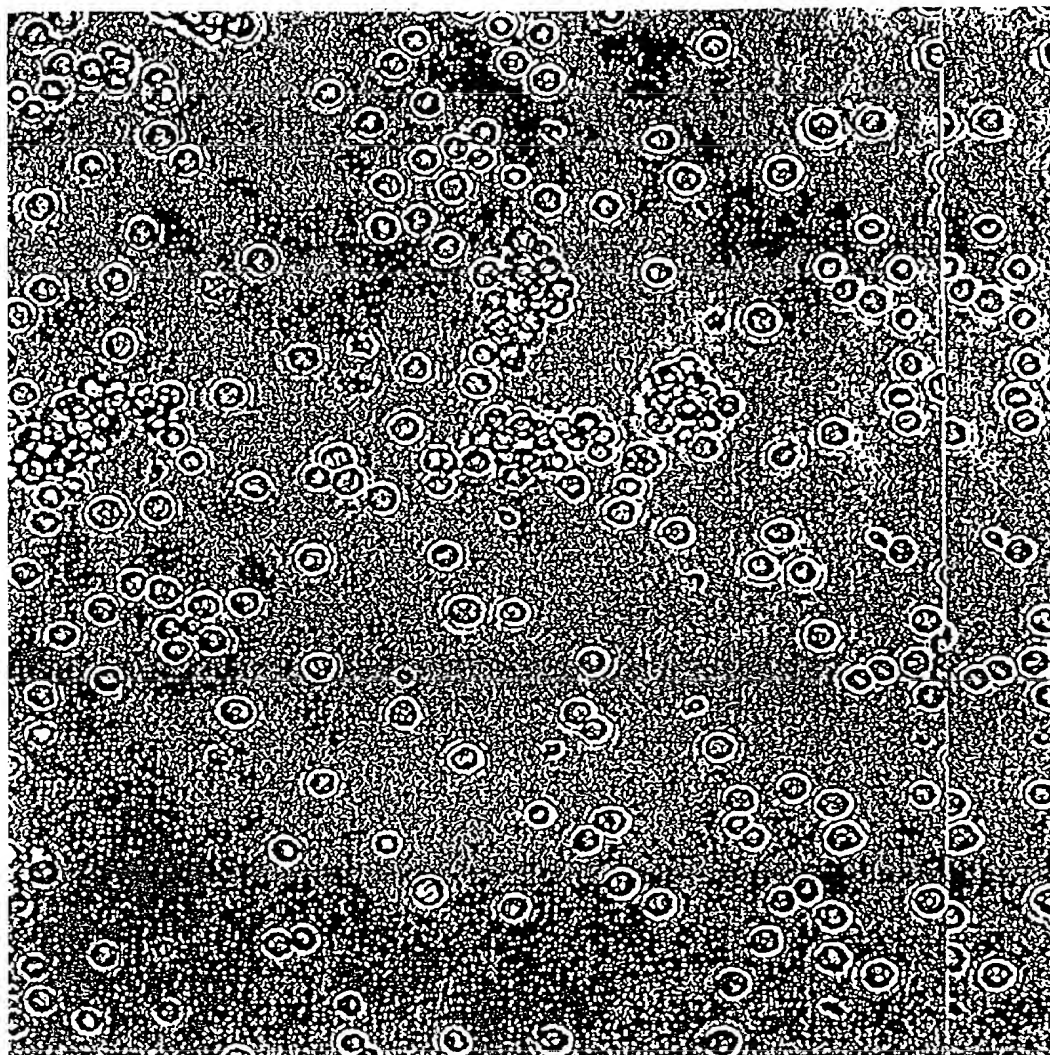


Fig. 50





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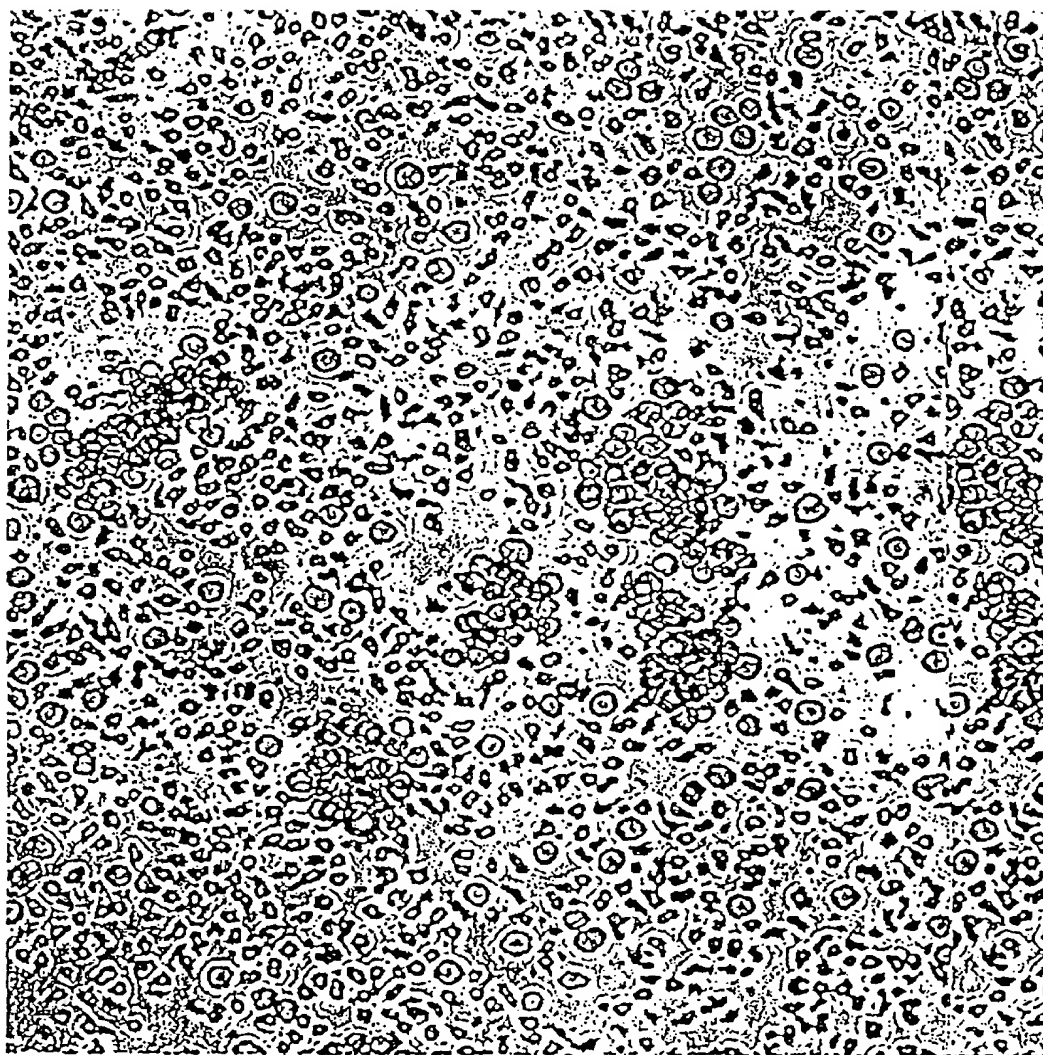


Fig. 51

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